(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 14 April 2005 (14.04.2005)

PCT

(10) International Publication Number WO 2005/033146 A1

(51) International Patent Classification⁷: C12N 5/00, C07C 29/00

C07K 17/00,

(21) International Application Number:

PCT/SE2004/001414

- (22) International Filing Date: 5 October 2004 (05.10.2004)
- (25) Filing Language:

English

(26) Publication Language:

S-751 84 Uppsala (SE).

English

(30) Priority Data: 0302652-3

(71) Applicant (for all designated States except US): AMER-SHAM BIOSCIENCES AB [SE/SE]; Björkgatan 30,

6 October 2003 (06.10.2003)

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): VAN ALSTINE, James [CA/SE]; Amersham Biosciences AB, Björkgatan. S-751 84 Uppsala (SE). BERG, Hans [SE/SE]; Björkgatan 30, S-751 84 Uppsala (SE). BJURLING, Åsa [SE/SE]; Amersham Biosciences, Björkgatan 30, S-751 84 Uppsala (SE).

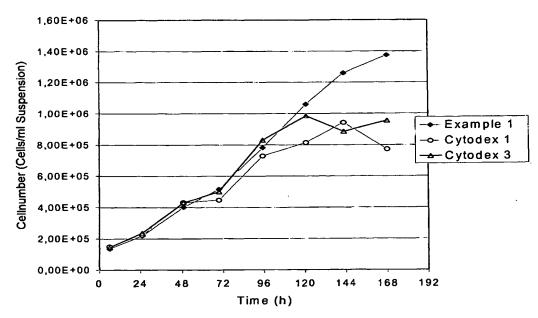
- (74) Agents: AMERSHAM BIOSCIENCES et al.; Patents Department, Björkgatan 30, S-751 84 Uppsala (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: ATTACHMENT OF CELLS TO SURFACES



(57) Abstract: The present invention relates to a microcarrier onto the surface of which a cationic compound has been immobilised via a guanidine group. The microcarrier is capable of attachment of cells, e.g. via charge-based interaction, and is advantageously used as a support in the culture of cells. Said compound may comprise one or two amino acids, such as arginine (Arg) or a dipeptide. The invention also relates to a method of preparing a polycationic microcarrier, which method comprises to immobilise a compound that comprises at least one guanidine group to an epoxide-activated substrate.

WO 2005/033146 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.